

Typification of *Astragalus* species III. (Leguminosae)

D. PODLECH

Abstract:

PODLECH, D.: Typification of *Astragalus* species III. (Leguminosae). – *Sendtnera* 6: 175–191. 1999. ISSN 0944–0178.

221 hitherto untypified taxa of the genus *Astragalus* L. from several herbaria are typified here.

Zusammenfassung:

221 bisher noch nicht typifizierte Sippen der Gattung *Astragalus* L. aus verschiedenen Herbarien werden hiermit typifiziert.

In two papers on typification of *Astragalus*-taxa (PODLECH & SYTIN 1996; PODLECH 1998) the bulk of hitherto untypified taxa of the genus *Astragalus* L. have been typified. In this paper most of the remaining taxa will be typified with the exception of some species, the types of which should be selected from herbaria in the former Soviet-Union (Erevan, Tiflis, Baku, Tashkent, Tomsk and others). They can be typified only after visiting the mentioned herbaria.

- A. acantherioceras* Rech.f. & Kœie, Biol. Skr. 9(3): 147. 1858. – Lectotype (designated here): Afghanistan, Shindand, 1100 m, 26.4.1949, *Kœie 4450* (W!; Iso: C!).
- A. acrocarpus* Freyn & Sint., Österr. Bot. Z. 44: 64. 1894. – Lectotype (designated here): [Turkey] Paphlagonia, Tossia, ad Giaur tschai, 26.6. (flor.), 5.7. (fruct.) 1892, *Sintenis 4485* [the flowering and fruiting specimens were always distributed together under one number] (BRNM!: the fruiting plant; Iso: B!, BM!, BP!, BR!, BRNM!: the flowering plants, G!, GOET!, HBG!, JE!, K!, LD!, LE!, M!, MSB!, OXF!, P!, PR!, W!, WU!).
- A. afghanomontanus* Sirj. & Rech.f., Biol. Skr. 9(3): 157. 1958. – Lectotype (designated here): Afghanistan, Deh Kundi, Sar-i-Nil, 7.6.1949, *Edelberg 1965* (W!; Iso: C!).
- A. ahouicus* Parsa var. *pumilus* Parsa, Fl. Iran 9: 36. 1966. – Syntypes: Golpayegan, 19.5. 1957; [Iran, Markasi] Khomayn, 12.5.1957, *Parsa 10012*. Lectotype (designated here): *Parsa 10012* (K!).
- A. ajfreidii* Aitch. & Baker, J. Linn. Soc., Bot. 19: 157. 1882. – Syntypes: [Afghanistan] at the spurs of Mt. Sikaram, 12.6.1880, *Aitchison 101*; and the Larkarai pass, 10000–12000', 12.6.1880, *Aitchison 373*. Lectotype (designated here): *Aitchison 101* (K!; Iso: C!, P!).
- A. amarus* Pall. 1800, Sp. Astragal.: 8, t. 6. – Lectotype (designated here): Arsagar in deserto Caspico, 1793, *Pallas* (BM!: best congruent with the plate; Iso: BM!, K!, LE!).

- A. amoenus* Fenzl, Pug. Pl. Nov. Syr.: 4. 1842. – Lectotype (designated here): [Turkey] in alpinus Tauri occid., aestate 1836, *Kotschy 124* (W!; Iso: B!, BM!, BP!, CGE!, G!, G-BOIS!, K!, LE!, M!, MSB!, OXF!, P!, PRC!, W!, ZT!). Note: The indication of a holotype in Fl. Turkey is erroneous.
- A. anacamptoides* Sirj. & Rech.f., Biol. Skr. 9(3): 140. 1958. – Lectotype (designated here): Afghanistan, Pul-Alam, 7000', 15.6.1937, *Koelz 11830* (W!; Iso: C!, E!).
- A. anatolicus* Boiss.
- var. *parviflorus* Turrill, Kew Bull. 1924: 320. 1924. – Syntypes: Gallipoli, Angadere, Biyick Yakajik Tepe, 250 m, 29.4.1923, *Ingoldby 29* (K!); dto., *Ingoldby 119* (K!); Gallipoli, Angadere, 22.–24.7.1923, *Ingoldby 443* (K!); Gallipoli, Kilia, 24.4.1924, *Durham 101*. Lectotype (designated here): *Durham 101* (K!).
- A. ancistrocarpus* Boiss. & Hausskn.
- var. *brachycarpus* Eig 1955, Syst. Stud. Astrag. Near East: 123. – Syntypes: Iraq, Kirkuk, Kani, Domlan hills, 30.4.1933, *Guest 4339 & 4363* (K!). Lectotype (designated here): *Guest 4339* (K!).
- var. *stepposus* Eig 1955, Syst. Stud. Astrag. Near East: 122. – Syntypes: N'Iraq, N Beled Sindjar, 27.4.1933, *Eig & Zohary*; 30 km W Hassetche, at the foot of Jebel Abd el Aziz, 28.4.1933, *Eig & Zohary*; top of Jebel Abd el Aziz, 29.4.1933, *Eig & Zohary* (HUI). Lectotype (designated here): N'Iraq, N Beled Sindjar, 27.4.1933, *Eig & Zohary* (HUI!, Iso: K!, W!).
- A. andalanicus* Boiss. & Hausskn. 1872, in Boissier, Fl. Or. 2: 345. – Lectotype (designated here): in monte Andalan supra Sihna Persiae occ., IX.1867, *Haussknecht 25* (G-BOIS!; Iso: BM!, K!, W!).
- A. angustatus* Boiss.
- subsp. *subtrijugus* Bornm., Bull. Herb. Boiss., sér. 2, 5: 843. 1905. – Lectotype (designated here): [Iran] inter Rescht et Kaswin, prope Patschinar, 500–600 m, 12.5., *Bornmüller 6818* (B!; Iso: JE!, LE!).
- A. angustifoliolatus* K.T.Fu, Bull. Bot. Res. North-East Forest. Inst. 2(1): 123. 1982. – Lectotype (designated here): [China] Yunnan, Lijiang Xian, prope Hortus Botanicus, 2750 m, 8.8.1962, *Zhongdian Exped. 613* (PE!; iso: KUN!, PE!).
- A. anserinaefolius* Boiss.
- var. *elegantifolius* Parsa 1966, Fl. d'Iran 9: 38 – Syntypes: Sirjan, III.–IV.1956, *Parsa ? 20038* K!: foto MSB!; dto., *200/0*. Lectotype (designated here): *Parsa ? 200/0* (K!).
- A. anthylloides* Lam.
- var. *villiger* Bornm. 1940, Repert. Spec. Nov. Regni Veg. Beih. 89: 178 – Syntypes: Tossia, 24.5.1892, *Sinten 3887* (LD!); Türkei, Paphlagonia, in collibus ad oppidulum Koc-hisar (Ilkhas), 1000 m, 23.6.1929, *Bornmüller 14092*. Lectotype (designated here): *Bornmüller 14092* (B!; Iso: HBG!, LD!, Z!).
- A. arbelicus* Bornm. 1937, Beih. Bot. Centralbl. 57(2): 281. – Syntypes: Kurdistan, E Erbil am Kuh-i-Sefin beim Dorf Schaklawa, 1200 m, 21.5.1893, *Bornmüller 1181*; Umgebung von Riwandus, nahe der persischen Grenze auf dem Händarin, 1300 m, 21.6.1893, *Bornmüller 1180* (B!). Lectotype (designated here): *Bornmüller 1181* (B!).
- A. arenicola* Pomel 1874, Bull. Soc. Sci. Phys. Algérie 11: 184. – Syntypes: Arbaouat, *Pomel* (MPU); Brezina, *Pomel* (MPU); Maia, *Pomel* (MPU); Mechaïgnen, *Pomel* (MPU). Lectotype (designated here): Arbaouat, *Pomel* (MPU!).
- A. argolicus* Hausskn. 1893, Mitth. Thüring. Bot. Vereins n.s. 5: 81. – Syntypes: in olivetis pr. Athenas, *Haussknecht*; Eleusin, *Haussknecht*; prope Naupliam, *Haussknecht*. Lecto-

type (designated here): M. Palamidi, supra Naupliam, IV.1885, *Haussknecht* (JE!; Iso: K!, LE!, W!, WU!).

- A. argyroides* Beck 1886, Denkschr. Kaiserl. Akad. Wiss., Math.- Naturwiss. Kl. 51: 341. – Syntypes: prope Manjil ad Bustanak, 9.5.1882, *Pichler* (W!, WU!); ad Schawerin [Schäberin] prope Hamadan, 12.6.1882, *Pichler*. Lectotype (designated here): ad Schawerin [Schäberin] prope Hamadan, 12.6.1882, *Pichler* (with fruits) (WU!; Iso: W!).
- A. argyrophyllus* Boiss. & Gaill. 1872, in Boissier, Fl. Or. 2: 358. – Syntypes: ad Ouadi el Karn Antilibani et in monte Gebel el Kharbé prope Damascus, *Gaillardot 470bis*; dto., 1764 (G-BOIS!: without flowers); in Syria bor., prope Aintab, 16.6.1865, *Haussknecht* (G-BOIS!). Lectotype (designated here): *Gaillardot 470bis* (G-BOIS!; Iso: G-BOIS!).
- A. atricapillus* Bornm. 1905, Bull. Herb. Boiss., sér. 2, 5: 753. – Lectotype (designated here): Elburs occ., supra Häsartschal alpium Tacht-i-Soleiman, 4200 m, 29.6.1902, *Bornmüller 6854* (B!; Iso: BP!, G!, JE!, LE!, P!, W!).
- A. atosanguineus* Murb. 1922, Acta Univ. Lund., n.s. 18(3): 63. – Lectotype (designated here): Grand Atlas à Amismiz, 1000 m, 7.5.1921, *Murbeck* (LD!; Iso: LD!).
- A. australis* (L.) Lam.
- prol. *buscesci* Jáv. 1916, Bot. Közlem. 15: 12 – Type: in rupibus calcareis montis Bucsecs comit. Brassó Hungariae austro-orientalis. Lectotype (designated here): 2.8.1886, *Csató* (BP!).
- var. *canescens* Beauverd 1903, Bull. Herb. Boiss., sér. 2, 3: 456. – Syntypes: Val di Ollomont alla Balne (Val di Aoste), 2100–2300 m, 28.7.1902, *Vaccari* (G!); Val de Cogne à Granson, 2300 m (Val d'Aoste), 7.8.1902, *Vaccari* (with drawing!). Lectotype (designated here): Val de Cogne à Granson, 2300 m (Val d'Aoste), 7.8.1902, *Vaccari* (with drawing!) (G!).
- A. austriacus* Jacq. 1762, Enum. Stirp. Vindob.: 263. – Lectotype (designated here): [Austria] Brühl, leg. *Hayne* (W: Hb. Jacquini!)
- A. bachtiaricus* Bunge
- var. *leiocarpus* Bornm. 1910, Beih. Bot. Centralbl. 27(2): 332. – Syntypes: Sultanabad, m. Kuh Sefid Khane, VII.1903, *Strauss* (B!); in monte Karagan, ditionis Hamadan, VI.1902, *Strauss*. Lectotype (designated here): in monte Karagan ditionis Hamadan, VI.1902, *Strauss* (B!).
- A. bahrakianus* Grey-Wilson 1974, Kew Bull. 29: 45. – Lectotype (designated here): Afghanistan, Wakhan, 2 miles east of the Dahlez Pass, west of Bahrak, ca. 3800 m, 26.6.1971, *Grey-Wilson & Hewer 1454* (K!, flowering; iso: K!, fruiting).
- A. baldaccii* Degen 1896, Österr. Bot. Z. 46: 415. – Lectotype (designated here): in monte Nimercka jugo Karajan supra Diovisda distr. Pogoni Albaniae, 8.7.1896, *Baldacci 115* (MSB!; Iso: BM!, BR!, K!, LE!, P!, PR!, PRC!, WU!, Z!).
- A. basianicus* Boiss. & Hausskn. 1872, in Boissier, Fl. Or. 2: 361. – Syntypes: in Mesopotamia ad Derbent i Basian, V.1867, *Haussknecht 33 (344)* (G-BOIS!, JE!); et in monte Pir Omar Gudrun, 4000', *Haussknecht*. Lectotype (designated here): in monte Pir Omar Gudrun, 4000', VI.1867, *Haussknecht 342* (G-BOIS!; Iso: G-BOISS!, JE!, LE!, W!).
- A. beckii* Bornm. 1908, Mitth. Thüring. Bot. Ver., n.s. 23: 5. – Lectotype (designated here): Prov. Gilan, supra Rudbar, 7.5.1902, *Bornmüller 6770* (B!: with diagnosis; Iso: B!, BM!, BP!, BREM!, E!, G!, HBG!, JE!, K!, LD!, LE!, MSB!, P!, PR!, W!, WU!, Z!, ZT!).
- A. bezudensis* Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 128. – Lectotype (designated here): Afghanistan, Bezud, 3000 m, 4.6.1949, *Edelberg 1852* (W!; Iso: C!)

A. bhotanensis Baker

– var. *montigenus* Hand.-Mazz. 1933, Symb. Sin. 7: 558. – Lectotype (designated here): [China] unter dem Pass Hwayanggo, am Weg von Lidjiang nach Yungning, 3500–3700 m, 12.7.1915, *Handel-Mazetti 7027* (WU!; Iso: E!, W!).

A. bijugus Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 160. – Lectotype: Afghanistan, Nil Kotal, 3000 m, 18.8.1948, *Koie 3227* (W!; Iso: C!).

A. bornmuelleri ('*bornmülleri*') Freyn 1890, Österr. Bot. Z. 40: 403. – Lectotype (designated here): Türkei, Amasia, 400–500 m, 13.6.1889, *Bornmüller 89* (BRNM!; Iso: B!, BM!, BR!, BRNM!, G!, LE!, PRC!, W!).

A. brachypetalus Trautv.

– subsp. *brachyanthus* Freyn & Sint. 1904, Bull. Herb. Boiss., Sér. 2, 4: 449. – Syntypes: Kopet Dagh, Suluklü, 4.7.1900, *Sintenis 729* (BRNM!, LD!: foto MSB!); et *730a*. Lectotype (designated here): *Sintenis 730a* (LD!; Iso: B!, BP!, BREM!, BRNM!, E!, G!, JE!, K!, L!, LE!, MSB!, P!, PR!, PRC!, STU!, WU!, Z!).

– var. *erythranthus* Freyn 1904, Bull. Herb. Boiss., Sér. 2, 4: 450. – Syntypes: Sülüklü, 2.8.1900, *Sintenis 730b*; Karakala, in monte Sundsodagh, 2.6.1901, *Sintenis 1889* (BP!, BRNM!, E!, G!, K!, LD!, LE!, P!, ST!, WU!, Z!). Lectotype (designated here): *Sintenis 730b* (BRNM!; Iso: BM!, BP!, BREM!, BRNM!, G!, HBG!, JE!, L!, LD!, LE!, M!, P!, PR!, PRC!, UPS!, Z!).

A. bracteosus Klotzsch 1862, in Klotzsch & Garcke, Bot. Erg. Waldem. Reise: 160, tab. 5, nom. illeg. [non Boiss. & Noë]. – Type: Himalaya, *Hoffmeister* (B: destroyed). Neotype (designated here): tab. 5 in Klotzsch & Garcke, Bot. Erg. Waldem. Reise: 160.

A. brevidens Freyn & Sint. 1904, Bull. Herb. Boiss., Sér. 2, 4: 1118. – Lectotype (designated here): Turkmenia, Suluklü, 1.7.1900, *Sintenis 738* (BRNM!; Iso: B!, BM!, E!, JE!, K!, LD!, LE!, P!, STU!).

A. campylanthoides Bornm. 1908, Mitth. Thüring. Bot. Ver. n.s. 23: 19. – Lectotype (designated here): dit. Hamadan in montibus Karagan, IV.1902, *Strauss* (B!; Iso: JE!, LE!).

A. canaliculatus Willd. 1813, Enum. Hort. Berol. Suppl.: 52. – Syntypes: [cult. in Hort. Berol.] (B-WILLD 13997/1 & 2). Lectotype (designated here): (B-WILLD 13997/1!).

A. carniolicus A.Kern. 1896, in sched. impr. ad Fl. Austro-Hung. 7: 3. – Lectotype (designated here): Carniolia, Nanos, 1250 m, *Mulley* in Fl. Exs. Austr.-Hung. 2408 (WU!; Iso: B!, BR!, BRNM!, C!, G!, H!, K!, L!, LD!, LE!, M!, MSB!, MW, P!, PE!, PR!, REG!, W!, Z!, ZT!).

A. cerasinus Baker 1880, J. Linn. Soc., Bot. 18: 47. – Syntypes: Kurram, Zabardastkalla and Alikhel, 18.4.1879, *Aitchison 109* (K!, LE!); dto., 30.4.1879, *Aitchison 191* (LE!, K!); 10.6.1879, *Aitchison 556*; *Aitchison, 476* (LE!). Lectotype (designated here): *Aitchison 556* (K!; Iso: LE!).

A. chamaephaca Freyn 1890, Österr. Bot. Z. 40: 402. – Lectotype (designated here): Amasia, prope Khaousa, 350–500 m, 3.5.1889, *Bornmüller 99* (BRNM!; Iso: B!, BM!, BP!, BR!, E!, G!, GOET!, HBG!, JE!, K!, LD!, M!, MSB!, OXF!, P!, PR!, PRC!, STU!, W!, WU!, ZT!).

A. chlorocarpus Griseb. 1843, Spicil. Fl. Rumel. Bith. 1: 50. – Syntypes: Macedonia boreali ad viam inter Komanova et Strazin, *Friedrichsthal*; in Thracia boreali pr. Philippopolin, *Friwaldsky*. Lectotype (designated here): in Thracia boreali pr. Philippopolin [= Plovdiv], *Friwaldsky* (GOET!; Iso: G-BOIS!).

- A. chlorotaenius* Freyn & Bornm. 1892, Österr. Bot. Z. 42: 12. – Lectotype (designated here): Pontus australis, Jatmisch, prope Tokat, 1400 m, 31.5.1890, *Bornmüller 2117* (B!; Iso: B!, BRNM!).
- A. chorassanicus* Bunge 1868, Mém. Acad. Imp. Sci. Saint Pétersbourg 11(16): 83 in clave [et l.c. 15 (1): 145. 1869]. – Lectotype (designated here): Prov. Chorassan prope Sebsewar et Nischapur, VI.1858, *Bunge & Bienert* (P; Iso: G-BOIS!; prope Nischapur, K!, LE!).
- A. concretus* Benth. 1835, in Royle, Illustr. Bot. Himal. Mount.: 199. – Lectotype (designated here): Emodo ad Gossainthan, *Wallich* Cat. 5931 (K!; Hb. Bentham; Iso: BR!, CGE!, E!, G!, K!; Hb. Bentham & Hb. Hooker, LE!, M!).
- A. cottonianus* Aitch. & Baker 1888, Trans. Linn. Soc. London, Bot. 3: 51. – Lectotype (designated here): Afghanistan, Badghis, 2., 4.5.1885, *Aitchison 377* (K!; iso: BM!, G!, K!, LE!).
- A. craibianus* N.D.Simpson 1915, Notes Roy. Bot. Gard. Edinburgh 8: 240. – Lectotype (designated here): Western China, 3900 m, VII.1904, *Wilson 3424* (K!; Iso: P!).
- A. cyclophyllon* Beck 1886, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 51: 339. – Lectotype (designated here): inter Hamadan et Malajir [am Malaia-Passe inter Hamadan et Malaia, 31.5.1882], *Pichler* (WU!; Iso: JE: fragm.!, W!, WU!, K!: in monte Elwend Media).
- A. danieli-kochii* Freyn 1905, Bull. Herb. Boiss., sér. 2, 5: 558. – Lectotype (designated here): in prato Alaiense, 2300 m, 27.6.1898, *Paulsen 589a* (C!; Iso: BRNM!, LE!).
- A. decumbens* Kom. 1914, Repert. Spec. Nov. Regni Veg. 13: 230, nom. illeg. [non A.Gray]. – Syntypes: China, prov. Kansu, secus fl. Taoho prope Dsiao-tcheng, 89°50', 28.5.1875, *Potanin*; Prov. Se-tshuan, circa Ta-tsien-lu, 9.7.1893, *Potanin*. Lectotype (designated here): China, prov. Kansu, secus fl. Taoho prope Dsiao-tcheng, 8950', 28.5.1875, *Potanin* (LE!).
- A. depressus* L.
- subsp. *atlantis* Maire 1937, Bull. Soc. Hist. Nat. Afr. Nord 28: 352. – Syntypes: Entifa, au Dj. Takreda, *Ibrahim* (P!); Ourika près le Tizi-n-Chiker, 2000–2300 m, *Maire*. – Lectotype (designated here): Ourika, entre Timiahi et Chiker, 2000 m, 13.7.1921, *Maire* (MPU!; Iso: P!).
- var. *medius* Cuatrec. 1929, Trab. Mus. Ci. Nat. Barcelona 12 [Estudios sobre la Flora y la Vegetación del Macizo de Mágina]: 334. – Syntypes: Mágina Oriental, sobre Pena Gragera, 1900 m, 1.7.1925, *Cuatrecasas*; Canada del Tejuelo sobre Cano del Aguadero, 1800 m, 25.6.1926, *Cuatrecasas* (MA!); Mágina occidental, en Penade Jaén, 2000 m, 4.7.1926, *Cuatrecasas*; torcales superiores de Mágina, 2000–2100 m, 26.6.1926, *Cuatrecasas*; Cárades, vert. NW, 1900–2000 m, 17.6.1926 *Cuatrecasas*. Lectotype (designated here): Torcales superiores de Mágina, 2000–2100 m, 26.6.1926, *Cuatrecasas* (MA!).
- A. dichroanthus* Freyn & Sint. 1892, Österr. Bot. Z. 42: 13. – Lectotype (designated here): Armenia turcica, Keban-Maden in montosis ad Denislü, 21.6.1889, *Sintenís 819* (BRNM!; Iso: LD!).
- A. distinctissimus* Rech.f. & Edelb. 1958, Biol. Skr. 9(3): 86, nom. illeg. [non Eig]. – Lectotype (designated here): Afghanistan, Zentral-Nord-Gebirge, VII.1953, *Edelberg 2310* (C!; Iso: W!: fragm.).
- A. dolichopodus* Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 1120. – Lectotype (designated here): Pamir, prope lac. Jashil Kul, 3800 m, 22.7.1898, *Paulsen 866* (BRNM!; Iso: BRNM!, C!, LE!).
- A. durandianus* Aitch. & Baker 1888, Trans. Linn. Soc. London, Bot. 3: 54. – Lectotype (designated here): Khorasan, on the pass to the south of Bezd, 6000', 18.6.1885, *Aitchison 688* (K!; Iso: BM!, C!, G!, LE!, W!).

- A. echinatus* Murray 1770, Hort. Bot. Stirp.: 222. – Type: non indicatus; Neotype (designated here): [misit] Gouan (Linn. 926.33, LINN).
- A. edinburghensis* Ponert 1973, Feddes Repert. 83: 632. – Lectotype (designated here): Turkey, Hakkari, Zap Gorge, 15 km from Hakkari to Cukurca, 1200 m, *Davis 44793* (E!; Iso: K!).
- A. elegans* Bunge 1868, Mém. Acad. Imp. Sci. Saint Pétersbourg 11(16): 55 [et l.c. 15(1): 89. 1869]. – Syntypes: Persia, Adserbidshan prope Tabris, *Szovits 362* (G-BOIS!, P!); Sseid-abbad haud procul ab urbe Tabris, *Bunge*. Lectotype (designated here): Sseid-abbad haud procul ab urbe Tabris, *Bunge* (P!; Iso: G-BOIS!).
- A. enantiotrichus* Freyn 1905, Bull. Herb. Boiss., sér. 2, 5: 561. – Syntypes: Pamir, prope lacum Jashil Kul, 3800 m, 21.7.1901, *Paulsen 849* (C!, LE!); dto., 13.8.1898, *Paulsen 1109*. Lectotype: Pamir, Jashil Kul, 3800 m, 13.8.1898, *Paulsen 1109* (C!; Iso: BRNM!, LE!).
- A. euphraticus* Freyn 1895, Bull. Herb. Boiss. 3: 186. – Lectotype (designated here): Armenia turcica, Egin, ad Euphratem, V.1890, *Sintenisi 2296* (BRNM!; Iso: B!, E!, K!, LD!, P!, PR!, PRC!, W!, WU!).
- A. exscapus* L.
– f. *scaposus* Beck 1900, in Rchb., Icon. Fl. Germ. Helv. 22: 105, tab. 156 II. – Lectotype (Iconotype) (designated here): plate in REICHENBACH, l.c. tab. 156 II.
- A. fialae* Degen 1900, Österr. Bot. Z. 50: 242. – Syntypes: Treskavica Planina Bosniae, 27.7.1893, *Fiala*; in Cernagorae mont. Dibala supra Kat. Kostica distr. Kuci, 10.7.1898, *Baldacci 188* (M!, PR!, PRC!, W!, WU!). Lectotype (designated here): Treskavica Planina Bosniae, 27.7.1893, *Fiala* (WU!).
- A. flavescens* Boiss. 1843, Diagn. pl. orient., ser. 1, 2: 64. – Syntypes: in reg. alpina Tmoli [Tmoleus circa Bogdagh], VII.1842, *Boissier*; supra Philadelphiam, *Boissier*; et supra Sardes loco Bozdagh, *Boissier* (G-BOIS!, M!). Lectotype (designated here): in reg. alpina Tmoli, VII.1842, *Boissier* (G-BOIS!; Iso: G!, G-BOIS!, GOET!, HBG!, JE!, K!, LIV!, MSB!, P!, TUB!, W!, ZT!).
- A. flexirachis* Rech.f. & Edelb. 1958, Biol. Skr. 9(3): 89. – Lectotype (designated here): Afghanistan, Deh Kundi, Sar-i-Nil, 3000 m, 7.6.1949, *Edelberg 1946* (W!; Iso: C!).
- A. forrestii* N.D.Simpson 1913, Notes Roy. Bot. Gard. Edinburgh 7: 124. – Lectotype (designated here): western flank of the Lichiang range, Yunnan, lat. 27°25' N, 11000', VI.1910, *Forrest 6041* (E!; Iso: BM!, K!, W!; fragm.).
– var. *minor* H.T.Tsai & T.T.Yu 1940, Bull. Fan Mem. Inst. Biol., Bot. Ser. 9: 260. – Lectotypus (designated here): S.Sikang, Shiancheng, Tungzung to Tungwah, 3000 m, 20.9.1937, *T.T.Yü 13401* (KUN!; Iso: KUN!, PE!).
- A. fuliginosus* Beck 1886, Denkschr. Kaiserl. Akad. Wiss. Math.-Naturwiss. Kl. 51: 340. – Lectotype (designated here): ad vias versus Merdjil [Manshil], 26.4.1882, *Pichler* (WU!; Iso: JE!; fragm., K!, W!, WU!).
- A. germanicopolitanus* Bornm. 1931, Magyar Bot. Lapok 30: 64. – Syntypes: Paphlagonia australis, in valle Cakmakli-dere prope Cankri (Germanicopolis olim), 800–900 m, 6.6.1929, *Bornmüller 14018*; et 3.7.1929, *Bornmüller 14098*. Lectotype (designated here): *Bornmüller 14098* (B!; Iso: ZT!).
- A. glaucophyllodes* Bornm. & Woronov 1914, Vestn. Tiflissk. Bot. Sada 34: 2. – Lectotype (designated here): Prov. Kars, distr. Kaghysman, prope Zarab-chan, 3.6.1913, *Woronow 12813* (B!; Iso: LE!).

A. glycyphyllus L.

- f. *bosniacus* Beck 1896, Ann. K.K. Naturhist. Hofmus. 11: 75. – Syntypes: bei Visoko, *Formanek*; um Gorazda, *Formanek*; dto., *Beck*; am Kmur bei Foca, *Formanek*; Prokosko jezero auf der Vranica Planina, VIII.1894, *Schwarz* (PRC!); Herzegovina, auf der Ivan Planina, *Sündermann*; Vrabacbei Konjica, *Formanek*; Montenegro, bei Skrobotusa, *Szyszyłowicz*. Lectotype (designated here): in silva Skrobotusa, 2.8.1886, *Szyszyłowicz* (W!).
- A. goeznensis* Eig 1955, Syst. Stud. Astrag. Near East: 38. – Syntypes: Türkei, Goezne (NW Mersina), 1000–1100 m, 16.8.1931, *Eig & Zohary*; dto., 1200–1300 m, 17.8.1931, *Eig & Zohary*. Lectotype (designated here): Goezne (NW Mersina, 1200–1300 m, 17.8.1931, *Eig & Zohary* (HUJ; Iso: E!, W!)).
- A. gombaultii* Eig 1955, Syst. Stud. Astrag. Near East: 127. – Syntypes: N' Lebanon, Jebel Sannin, 2000 m, 20.7.1930, *Gombault 465*; ibidem, 1.6.1879, *Peyron [957]* (G!); ibid., 6.7.1897, *Bornmüller*; ibid., 19.7.1935, *Mouterde*; S' Lebanon, Tom Niha, 13.3.1877, *Ball*. Lectotype (designated here): *Gombault 465* (P!).
- A. granatensis* Lange 1865, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn 1865: 177 [et in Pugillus: 372], nom. illeg. [non Lam.]. – Syntypes: Sierra Elvira fl. granat., 24.4.1852, *Lange* (C!); et Sierra de Alfacar prope Granada, 27.4.1851, *Lange* (C!, MSB!, P!); Guejar ad rupes (Sierra Nevada), 16.4.1852, *Lange*. Lectotype (designated here): Guejar ad rupes (Sierra Nevada), 16.4.1852, *Lange* (C!; Iso: C!).
- A. grandiflorus* Freyn 1892, Österr. Bot. Z. 42: 46, nom. illeg. [non L. nec Bunge]. – Lectotype (designated here): Armenia turcica, Kharput, ad Schuschnas, 8.6.1889, *Sintenis 720* (BRNM!; Iso: B!, BR!, JE!, LD!, P!).
- A. grisebachianus* Aitch. & Baker 1888, Trans. Linn. Soc. London, Bot. 3: 52. – Syntypes: Afghanistan, Harirud valley, 10.5.1885; et 6.6.1885, *Aitchison 419* (LE!). Lectotype (BECHT 1978): Harirud valley, 10.5.1885 et 6.6.1885, *Aitchison 419* (K!; Iso: BM!, G!); Lectotype (designated here): Harirud valley, 10.5.1885, (K!; Iso: K!). Note: The both collections are sometimes distributed together (BM!, G!, K!). The so-called lectotype by BECHT 1978 is such a mixed sheet.
- A. hamulosus* H.Lév. 1914-15, Fl. Kouy-Tchéou: 226. – Syntypes: [China, prov. Guizhou] Hini-Fou, ruisseaux rizière, 20.4.1897, *Bodinier 1580*; Tin Lan, *Cavallerre* (E!, MSB!, P!). Lectotype (designated here): *Bodinier 1580* (P!; Iso: E!, MSB!).
- A. hancockii* 1880, Bull. Acad. Imp. Sci. Saint-Petersbourg 26: 471. – Syntypes: China, [Prov. Hubei] prov. Petschili, m. Siao-wu-tai-shan, 3600–5000', 1876, *Hancock* (LE!); China, prov. Petschili, m. Siao-wu-tai-shan, Aufstieg vom Kloster Tieh lin sze, VI.1879, *Möllendorf*. Lectotype (designated here): China, prov. Petschili, m. Siao-wu-tai-shan, Aufstieg vom Kloster Tieh lin sze, 3600–5000', VI.1879, *Möllendorf* (LE!; Iso: LE!, PE!).
- A. hedinii* Ulbr. 1905, Bot. Jahrb. Syst. 35: 679. – Lectotype (designated here): locality on the sheet not to read; according to OSTENFELD & PAULSEN: Northern Tibet, Mandarlik, VII.1900, *Hedin* (C!; the original material at Berlin is lost).
- A. henryi* Oliv. 1891, in Hooker's Icon. Pl. 20: t. 1959. – Lectotype (designated here): China, Prov. Hupeh, Fang District, *Henry 6902* (K!; Iso: BM, E!, K!, LE!, P!).
- A. hirsutus* Vahl
- subsp. *paraglobosus* Ponert 1973, Feddes Repert. 83: 631. Lectotype (designated here): [Turkey] Kayseri, Bakir Da. above Kiske, *P. Davis 19340* (E!; Iso: K!)
- var. *hispidus* Freyn & Bornm. 1892, Österr. Bot. Z. 42: 48. – Syntypes: Tokat, 800–900 m, 13.5.1889, *Bornmüller 106*; Sivas, in monte Tschamlü-bel supra Yeni-chan, 1500 m, 1.6.1890, *Bornmüller* (Z!); Amasia, in monte Akdagh, 1200–1900 m, 22.5.1890, *Born-*

müller 2102 (B!); Pontus galaticus, in mte. Abadschi Dag, 1500 m, 14.5.1890, *Bornmüller* 2103 (B!). Lectotype (designated here): *Bornmüller* 106 (B!; Iso: BRNU!, G!, JE!, LE!, OXF!)

- A. *holdichianus* Aitch. & Baker 1888, Trans. Linn. Soc. London, Bot. 3: 54. – Syntypes: Afghanistan, Badghis, 29.4.1885 (fl.), *Aitchison*; 19.5.1885, *Aitchison* 347. Lectotype (designated here): *Aitchison* 347 (K!: fruiting plant; Iso: BM, C!, G!, K!, LE!, P!, W: fragm!).
- A. *hololeios* Bornm. 1934, Bot. Jahrb. Syst. 66: 226. – Lectotype (designated here): Kabul, in monte Babur, 2000 m, 1928–1929, *Manger* (JE!; Iso: B!).
- A. *humillimus* Freyn 1894, Österr. Bot. Z. 44: 61, nom. illeg. [non A.Gray]. – Syntypes: Paphlagonia, Kastemuni, ad Taschly Chan, 6.5.1892, *Sintenis* 3853 (B!, BRNM!, LD!); Tossia, prope Tossia Dewrendi in jugo Kutschuk-Ilkas-Dagh, 4.6.1892, *Sintenis* 4127; ad Schakylar, 16.7.1892, *Sintenis* 4688 (B!, BRNM!, JE!, LD!, MSB!). Lectotype (designated here): *Sintenis* 4127 (BRNM!; Iso: B!: erroneously 4124, BP!, BR!, FR!, G!, GOET!, HBG!, K!, L!, LD!, M!, MSB!, OXF!, P!, PR!, STU!, W!, WU!, Z!).
- A. *huthianus* Freyn & Bornm. 1898, Bull. Herb. Boiss. 6: 605. – Lectotype (designated here): Prov. Kerman, mont. Kuh Lalesar prope Lalesar, 2900–3000 m, 23.7.1892, *Bornmüller* 3759 (B!; Iso: BRNM!).
- A. *ibrahimianus* Maire 1922, Bull. Soc. Hist. Nat. Afr. Nord 13: 38 – Syntypes: Djebel Touchka, montagne au sud de la ville de Maroc [= Marrakech], 11.6.1875, *Ibrahim*; Djebel Ouensa, montagne au sud de la ville de Maroc, VI.1874, *Ibrahim* (BREM!, K!, LE!, P!); in jugo Tagherat ditionis Reraya, 3300–3500 m, 22.7.1922, *Maire* (LD!, MPU!, P!); in monte Tachdirt, 3200 m, 11.7.1921, *Maire* (MPU!, P!); in jugo Chiker ditionis Ourika, 2400 m, 14.7.1921, *Maire* (MPU!, P!). Lectotype (designated here): Djebel Touchka, montagne au sud de la ville de Maroc [= Marrakech], 11.6.1875, *Ibrahim* (MPU!; Iso: BP!, BR!, GOET!, K!, LE!, MSB!, PRC!, WU!).
- A. *jagnobicus* Lipsky
– var. *shtivensis* Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 52. – Syntypes: [Afghanistan] Nuristan, Shtive, 2600 m, 16.6.1948, *Edelberg* 1033 (C!, W!); Weran, Nau, 3000 m, 21.7.1948, *Edelberg* 1474; Netschingel, 15.7.1949, *Edelberg* 2001 (C!, W!). Lectotype (designated here): *Edelberg* 1474 (W!; Iso: C!).
- A. *juratzkanus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 567. – Lectotype (designated here): Turkmenia, Kisil-Arwat, 3.5.1901, *Sintenis* 1623a (BRNM!; Iso: JE!, LD!, LE!).
- A. *kialensis* N.D.Simpson 1915, Notes Roy. Bot. Gard. Edinburgh 8: 242. – Lectotype (designated here): [China] Szechuen, Tongolo (Principauté de Kiala), Ta-t sien-lu, 10.8.1893, *Soulié* 332 (K!; Iso: G!, MSB!, P!).
- A. *kourosianus* Parsa 1947, Kew Bull. 1947: 19. – Lectotype (designated here): Hormud, Fars, 5.4.1939, *Parsa* ? 670 (K!; Iso: TEH, fide Maassoumi: pers. comm.).
- A. *krajinae* Domin 1931, Acta Bot. Bohem. 10: 48 [et in sched. impr. ad Fl. Chechosl. exs. no. 270]. – Lectotype (designated here): Rossia subcarpatica orientali-septentrionalis, montes Svidovec, ad rupes Dragobrat, 1650–1700 m, 11.7.1931, *M.Deyl* in Fl. Chechosl. exsicc. 270 (PRC!; Iso: B!, BP!, H!, HBG!, K!, LD!, LE!, MSB!, PRC!, W!).
- A. *lanatus* Labill.
– var. *denniensis* Gombault 1953, Bull. Soc. Bot. France 100: 331 – Lectotype (P!; Iso: P!)
- A. *latistylus* Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 1106. – Lectotype (designated here): Pamir, prope lacus Jashil-Kul, 3800 m, *Paulsen* 814 (BRNM!; Iso: C!, LE!).

- subsp. *aridus* Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 1107. – Lectotype (designated here): Pamir, prope lacum Jashil-Kul, 3800 m, 22.7.1898, *Paulsen 865* (BRNM!; Iso: C!, LE!).
- A. leucothrix* Freyn & Bornm. 1891, Österr. Bot. Z. 41: 406. – Lectotype (designated here): Pontus australis, Amasia, ex gr. Logman et Kirkklar ad arcem, 600–800 m, 28.5.1890, *Bornmüller 1840* (B!; Iso: B, BRNM!, G!, JE!, W!, WU!).
- A. linearifolius* Pers. 1807, Syn. 2: 336. – Type (In LD no specimen of Persoon). Neotype (designated here): prope Rudo ad fluv. Lim, 370–400 m, VI.1910, *Maly* in herb. norm. ed. Dörfler 5254 (M!; Iso: B!, PR!, W!).
- A. lipskyanus* Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 755. – Syntypes: Pamir, ad lacus Jashil-Kul, 28.7.1898, *Paulsen 977* (BRNM!, C!; et ibidem, 8.8.1898, *Paulsen 1075*. Lectotype (designated here): *Paulsen 1075* (C!).
- A. longicuspis* Bunge 1868, Mém. Acad. Imp. Sci. Saint Pétersbourg 11(16): 121 in clave [et l.c. 15(1): 211. 1869]. – Lectotype (designated here): ad urbem Urmiah Prov. Aderbeidschan, 10.4.1828, *Szovits 68* (LE!; Iso: G-BOIS!, H!, K!: teste Bunge, LE!).
- A. longidens* Freyn 1895, Bull. Herb. Boiss. 3: 181. – Lectotype (designated here): Armenia turcica, Egin, ad Ischek-Meden, 18.6.1890, *Sintenis 2658* (BRNM!; Iso: B!, E!, G!, K!, LD!, MSB!, P!, WU!).
- A. longilobus* E.Peter 1937, Acta Horti Gothob. 12: 47. – Lectotype (designated here): Kansu austr.occ., upper Tebbu country, slopes at foot of Shimen, 12000', July–Aug. 1925, *Rock 13015* (E!; Iso: , K!, P!, PE!).
- A. luteolus* H.T.Tsai & T.T.Yu 1936, Bull. Fan Mem. Inst. Biol., Peiping, Bot. Ser. 7: 23. – Lectotype (designated here): NW.Szechuan, Sung-pan hsien, 21.8.1928, *W.P.Fang 4313* (PE!: with flowers; Iso: E!, K!, P!, PE!: with fruits).
- A. lycius* Boiss.
- f. *acutiflorus* Hub.-Mor. 1940, Repert. Spec. Nov. Regni Veg. 48: 284. – Lectotype (designated here): Vilajet Burdur in Pisidien, Dirmil-Tefenni, 1250 m, 9.6.1938, *Reese, Renz & Huber 5531* (G!; Iso: G!). Note: Homotypic with *A. mesogitanus* Boiss. f. *glabrifolius* Hub.-Mor.
- A. macedonicus* Heldr. & Charrel 1892, in schedis impr. ad Heldreich Herb. Graec. Norm. no. 1136. – Lectotype (designated here): Macedonia, in m. Korthiati prope Thessalonicam, 4000', 19.5.1891, *Charrel* in Heldreich Herb. Graec. Norm. 1136 (MSB!; Iso: B!, BRNM!, G!, JE!, K!, LD!, LE!, MPU!, PR!, PRC!, P!, STU!, W!, Z!) [in WU no specimen!].
- A. macropterus* DC. 1825, Prodr. 2: 283. – Syntypes: In Dahuria et Sibiria Scythica, *Schangan* (G-DC!, LE!); ex Dahuria misit Fischer. Lectotype (designated here): ex Dahuria misit Fischer (leg. *Pausner*) (G-DC!; Iso: LE!).
- A. macrostegius* Rech.f. 1958, Biol. Skr. 9(3): 37. – Lectotype (designated here): Nuristan, Minjan pass, 12000', 26.7.1937, *Koelz 12716* (W!; Iso: US).
- A. maculatus* Bunge 1868, Mém. Acad. Imp. Sci. Saint Pétersbourg 11(16): 119 [et l.c. 15(1): 206. 1869], nom. illeg. [non Lam.]. – Lectotype (designated here): inter Nischapur et Meschhed, 1858, *Bunge & Bienert* (LE!; Iso: G-BOIS!).
- A. maddenianus* Baker 1876, in Hooker f., Fl. Brit. India 2: 127. – Syntypes: Kumaon, 10000–11000', *Madden, Edgeworth*. – Lectotype (designated here): Himalaya, 10–11000', Badrinath, *Madden* (K!).
- A. medullaris* Boiss. 1849, Diagn. pl. orient., ser. 1, 9: 66. – Lectotype (designated here): in regno Cabulico, *Griffith 1061* (K: Hb. Hooker!; Iso: G!, G-BOIS!, K!: Hb. Hooker) = distr. no. 1532 (C!, CGE!, L!, ZT!).

- A. mendax* Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 770. – Lectotype (designated here): Olgin-Lug in mont. Alai, 2600 m, 20.6.1898, *Paulsen 438* (BRNM!; C!, LE!: fragm.).
- A. microcalycinus* Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 163. – Lectotype (designated here): Afghanistan, Kabul, 6000', 15.5.1937, *Koelz 11456* (W!; Iso: US).
- A. minutissimus* Freyn & Bornm. 1897, Bull. Herb. Boiss. 5: 588, nom. illeg. [non Weddell]. – Syntypes: Persia, Kerman, Kuh-i-Häsar (inter Kerman et Bandar-Abbas) prope pag. Tschähasar-tagh, 3000 m, 8.8.1892, *Bornmüller 3762a* (B!) [*Bornmüller 3762* with exactly the same text of *3762a* on label in B!, BRNM!, G!, K!, LE!, WU!]; mt. Kuh-Lalesar prope pag. Lalesar, 3000 m, 12.7.1892, *Bornmüller 3761*. Lectotype (designated here): *Bornmüller 3761* (BRNM!; Iso: B!).
- A. moellendorffii* Bunge
– var. *kansuensis* E.Peter 1937, Acta Horti Gothob. 12: 50. – Lectotype (designated here): [China] Kansu centr., Lien-hwa-shan [between Taochow and Titao, 11500 ft., 14.–20.7.1925, *Rock 12718* (E!; Iso: K!, W!)].
- A. muelleri* Steud. & Hochst. 1827, Flora 10: 72. – Lectotype (designated here): Ins. Veglia, V.1826 *Müller* (TUB: herb. Hochstetter! as *A. mülleri* nobis; Iso: K!, W!).
- A. muliensis* Hand.-Mazz. 1933, Symb. Sin., Pt. 7: 554. – Lectotype (designated here): China, Prov. Setschwan, Tschako SW Muli, auf dem gegen Dschungdien führenden Rücken, 3950 m, 5.8.1915, *Handel-Mazzetti 7454* (WU!; Iso: E!, W!).
- A. murrii* Huter 1889 in schedis imprim. ad exsicc. ed. Baenitz [et in Österr. Bot. Z. 55: 29. 1905]. – Lectotype (designated here): Tirolia septentrionalis ad "Neuen Schönberg", VI.1889, *Murr*, in exsicc. ed. BAENITZ, (W!; Iso: BP!, BRNM!, GOET!, HBG!, JE!, K!, L!, PR!, WU!, ZT!).
- A. nanellus* H.T.Tsai & T.T.Yu 1936, Bull. Fan Mem. Inst. Biol., Peiping, Bot. Ser. 7: 25. – Lectotype (designated here): Western Szechuan, Fu-pien hsien, 3200 m, 18.6.1930, *F.T.Wang 21356* (PE!; Iso: PE!, W!; fragm.).
- A. narbonensis* Gouan
– subsp. *atlanticus* Ball 1873, J. Bot. 11: 306. – Lectotype (designated here): in regione inferiori Atlantis Majoris, in convalle Ait Mesan, ca. 1200 m, *Ball* (K!; Iso: BM!, G!, K!, LE!).
– var. *glabrescens* Coss. 1852, Not. Pl. Crit.: 161. – Syntypes: Sierra Nevada, loco dicto Cortijo de la Vibora, VII.1851, *Bourgeau 1143*; in provincia Giennensi (province de Jaen) prope Trusala, 1851, *Blanco 255*. Lectotype (designated here): *Bourgeau 1143* (P!; Iso: GOET!, P!).
- A. neilreichianus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 571. – Lectotype (designated here): Turcomania, Kisil Arwat, 3.5.1901, *Sintenis 1623b* (BRNM!; Iso: JE!, LD!, LE!).
- A. nigritus* Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 43. – Lectotype (designated here): Afghanistan, Farakulum, 2800 m, 19.7.1948, *Köie 2569* (W!; Iso: C!).
- A. nitidulus* Hand.-Mazz. 1913, Ann. Nat. Hofmus. Wien 27: 78. – Lectotype (designated here): Rücken El Hilu zwischen Sabcha und Tibne ober Der et Sor am Euphrat [inter Meskene et Der-ez-Sor], 250–350 m, 29.3.1910. *Handel-Mazzetti 545* (WU!; Iso: B!; fragm., W!).
- A. novus* Winterl 1788, Index Hort. Bot. Pest.: 15, fig. 13. – Type: not indicated. Lectotype (Iconotype) (designated here): Fig 13 in Index Hort. Bot. Pest. 15.

A. nuristanicus Sirj. & Rech.f.

– var. *elasoonensis* Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 79. – Type: Nuristan, Elason, *Edelberg* [s.n.]. Lectotype (designated here): [Afghanistan] Elason, 7.7.1949, *Edelberg 1746* (W!; Iso: C!).

A. olufsenii Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 450. – Syntypes: Sufi-Kurgan in mt. Alai, 18.6.1898, *Paulsen 421* (BRNM!, C!); in prato Alaiensi, 27.6.1898, *Paulsen 589b* (C!); Pamir, ad lacus Jashil-Kul, 3800 m, 28.7.1898, *Paulsen 973* (BRNM!, C!); prope lac. Bulung Kul, 3800 m, 25.8.1898, *Paulsen 1168*. Lectotype (designated here): *Paulsen 1168* (BRNM!; Iso: C!).

A. oophorus Freyn 1905, Bull. Herb. Boiss., sér. 2, 5: 1019. – Lectotype (designated here): Pamir, Jashil-Kul, 3800 m, 4.8.1898, *Paulsen 1026* (BRNM!; Iso: C!, LE!).

A. orophacoides Freyn 1905, Bull. Herb. Boiss., sér. 2, 5: 563. – Syntypes: Pamir, ad Sary Mullah, 4100 m, 5.7.1898, *Paulsen 681* (C!, BRNM!); Pamir, ad Shatshan prope fl. Murghab, 3800 m, 11.7.1898, *Paulsen 730*. Lectotype (designated here): *Paulsen 730* (BRNM!; Iso: C!, LE!).

A. orthanthus Freyn 1905, Bull. Herb. Boiss., sér. 2, 5: 1018, nom. illeg. [non A.Gray]. – Syntypes: Pamir, prope fl. Kara-Su, 12.7.1898, *Paulsen 754* (C!, LE!); Pamir, lac. Jashil Kul, 13.8.1898, *Paulsen 1103*. Lectotype (designated here): *Paulsen 1103* (BRNM!; Iso: C!, LE!).

A. orthocarpus Boiss. 1849, Diagn. pl. orient., ser. 1, 9: 68. – Lectotype (designated here): [Afghanistan] in regno Cabulico, *Griffith 1060* = distr. no. 1520 (K: Hb. Hooker! Iso: K!, P!).

A. orthodontus Bunge 1868, Mém. Acad. Imp. Sci. Saint Pétersbourg 11(16): 101 [et l.c. 15(1): 176. 1869]. – Lectotype (designated here): [Turkey] Cilicia or., monte Jool-dagh prope Baatsch, 4800', *Kotschy 233* (P!; Iso: G-BOIS!, K!, L!, MSB!).

A. paghmanensis Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 100. – Lectotype (designated here): Afghanistan, Paghman, 7000 ft., 12.5.1937, *Koelz 11390* (W!; Iso: US).

A. panjaoensis Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 154. – Lectotype (designated here): Afghanistan, Panjao, 2700 m, 1.8.1948, *Koie 2748* (W!; Iso: C!).

A. paphlagonicus Freyn & Sint. 1894, Österr. Bot. Z. 44: 65, nom. illeg. [non Bunge]. – Syntypes: Paphlagonia ad Tossia, prope Kawak-Tscheschme, 7.6.1892, *Sintenis 4126* [without fruits] (B!, BP!, BRNM!, JE!, LD!, P!, PR!, WU!); ad Hadschi Ahmed, 17.6.1892, *Sintenis 4126b* [with fruits]. Lectotype (designated here): *Sintenis 4126b* (BRNM!; Iso: G!, LD!, PR!, PRC!, W!, Z!).

A. patulepilosus Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 166. – Lectotype (designated here): Afghanistan, Shindand, 1400 m, 1949, *Koie 4331* (W!; Iso: C!).

A. peterfi Jáv. 1916, in Sched. Fl. Hung. Exsicc. 4: 38. – Lectotype (designated here): supra pag. Magyarzovát, versus pag. Oláhgyéres, comit. Kolozs Hungariae orientalis, 350–400 m, 15.5. et 1.6.1916 fl., 30.7.1916 fr., *Péterfi* (BP!: the specimen signed as lectotype; Iso: BP! et in Fl. Hung. exs. 363: BP!, BR!, BRNU!, C!, H!, K!, L!, LD!, LE!, MSB!, PE!, PR!, PRC!, W!, Z!, ZT!).

A. petrovicii Velen. 1903, Sitzungsber. Königl. Böhm. Ges. Wiss. Prag, Math.-Naturwiss. Cl. Jahrg. 1903(28): 4. – Lectotype (designated here): Serbia ad Nish in m. Suha planina, VII.1887, *Bornmüller* (PRC!; Iso: B!, MSB!, W!).

A. pityusarum Bornm. 1931, Magyar Bot. Lap. 30: 62. – Lectotype (designated here): Bithynia, Vesir-han, in monte Tepaja, 300–400 m, 25.5.1929, *Bornmüller 14099* (B!; Iso: B!, BM!, BP!, G!, HBG!, K!, LD!, LE!, MSB!, P!, PR!, W!, Z!).

A. podocarpus C.A.Mey.

– var. *leucotrichus* Bornm. & Gauba 1935, Repert. Spec. Nov. Regni Veget. 39: 100. – Lectotype (designated here): Elburs, Keredj Tal bei Sirah, 2700 m, 31.8.1935, *Gauba 625* (B! sub no 490; Iso: B!, W!).

A. podolobus Boiss. & Hohen.

– f. *albavillosus* Sirj. & Rech.f. 1961, Sitzungber. Öserr. Akad. Wiss., Mathem.-Naturw. Kl., Abt. 1, 170:50. – Lectotype (designated here): Khorasan, Montes Hazar Masdjid, inter Gash et Tolgor, 7.–10.6.1948, *Rech.f. 5145b* (W; Iso: B!, E!, G!, G-Aellen!, K!). *MS!*

A. polychromus Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 454. – Lectotype (designated here): Pamir, ad flum. Muskol, 4300 m, 2.6.1898, *Paulsen 665* (C!; Iso: BRNM!, LE!).

A. praecox Baumg. 1816, Enum. stirp. Transsilv. 2: 362. – Syntypes: juxta Kolosvár; Déva; Karoly-Fejérvár; sz. Ersébeth; Keresd; Segesvár; Prodt; Berethalom; et ad Szász-Kesd; Köhalom. Lectotype (designated here): in herbis montosis saxosis ad Scycsvoro [= Segesvár] versus Wziter Berg, III.1809, *Baumgarten* (REG!).

A. prattii N.D.Simpson 1915, Notes Roy. Bot. Gard. Edinburgh 8: 244. – Lectotype (designated here): Szechuen, Tachien-lu, 2700–4050 m, *Pratt 573* (K; Iso: BM!, G!). Note: The statement of WENNINGER 1991: Holotype: *Wilson 3420* is wrong!

A. pseudocylindraceus Bornm. 1915, Magyar Bot. Lapok 14: 51 – Lectotype (designated here): Kurdistania Turcia, pr. Egin ad "Habnus-Erkek", 3.6.1890, *Sintenis 2538* (B!: foto K!; Iso: B!: foto MSB!, JE!, MSB!, W!, WU!).

A. pubescens Schrank 1792, Prim. fl. Salisb.: 2. – Neotype (designated here): Salzburg, (M!; hb. Schrank, as *A. pilosus*).

A. rawlinsianus Aitch. & Baker 1888, Trans. Linn. Soc. London, Bot. 3: 51. – Syntypes: Badghis, 1.5., 19.5. (P!: in fruit) et 20.5.1885 (BM!: in fruit), *Aitchison 357*. Lectotype (designated here): [1.5.1885], *Aitchison 357* (K!: the flowering plant; Iso: BM!, C!, FI!, G!, K!, LE!, P!, W!). Note: The flowering and fruiting plants are almost distributed together.

A. retufolius Y.C.Ho 1981, Bull. Bot. Res. North-East. Forest. Inst. 1(3): 114. – Lectotype (designated here): Yunnan, Yü beng-za, 3600 m, 21.6.1937, *T.T. Yü 8683* (PE!; Iso: KUN!, PE!).

A. rimarum Bornm. 1905, Bull. Herb. Boiss., sér. 2, 5: 755. – Lectotype (designated here): Elburs occ., in montibus inter Asadbar et Gerab, in jugo Gerdene Bary, 2900 m, 1.7.1902, *Bornmüller 6856* (B!; Iso: B!, BM!, BP!, G!, K!, LE!, P!, W!).

A. rochelianus Heuff. 1853, Flora 36: 622. – Lectotype (designated here): In rupestribus infra Drukova legionio Vallachio banaticae, 1843, *Heuffel* (BP!).

A. roemeri Simonk. 1892, Természettud. Közl. (Pótfüz.) 19: 138. – Lectotype (designated here): N Tolgyes-szorostól [ravine] loco "Vereskö" [near Borszék], ca. 1150 m, 5.8.1891, *Roemer* (BP!; Iso: BP!., LE!, M!).

A. saadius Parsa 1966, Fl. Iran 9: 77. – Lectotype (designated here): [Iran] Sirjan, VI.1957, *Parsa ?* (K!; Iso: K!).

A. samarkandinus Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 763. – Lectotype (designated here): [Uzbekistan] prope Samarkand, ad Balan Nur, 6.5.1898, *Paulsen 107* (C!; Iso: BRNM!).

A. sarae Eig 1955, Syst. Stud. Astrag. Near East: 40. – Syntypes: Iraq, Jebel Sindjar, 1100 m, 1200 m & 1500 m (HUJ!), 27.4.1933, *Eig & Zohary*; Iraq, Jebel Sindjar, 1060 m, *Eig & Zohary*. Lectotype (designated here): Iraq, Jebel Sindjar, 1060 m, *Eig & Zohary* (HUJ!; Iso: E!, K!, W!).

- A. saxatilis* Freyn & Bornm. 1891, Österr. Bot. Z. 41: 495. – Syntypes: Amasia, Abadschi-Dagh, 1100–1200 m, 11.5.1890, *Bornmüller 1865* (B!, BM!, BRNM!, G!, JE!, LD!, LE!, OXF!, W!); Sana-Dagh, 14.5.1890, 700–900 m, *Bornmüller 2114* (B!); Maghmur-Dagh, 4.5.1890, *Bornmüller 2115*; Armenia turcica, Gumushkhane, inter Beschklissa et Ardas, 30.4.1890, *Sintenisi 2104*. Lectotype (designated here): *Sintenisi 2104* (BRNM!; Iso: BP!, E!, G!, JE!, LD!, P!, PR!, W!, WU!).
- A. saxicola* Ulbr. 1922, Repert. Spec. Nov. Regni Veget. Beih. 12: 423. – Type: Tschili, Hsiau Wu tai schan, 3050 m, *Limpricht 2552*. Lectotype (designated here): [an den höchsten Felsgraten des Pe tai, 3250 m, 17.7.1915], *Limpricht 2552* (WU!; Iso: K!).
- A. saxifactor* Rech.f. & Gilli 1958, Biol. Skr. 9(3): 133. – Syntypes: Afghanistan, Tangi Gharu, 1500–1700 m, 11.5.1951, *Gilli 1518*; and 22.6.1951, *Gilli 1519* (W!). Lectotype (designated here): *Gilli 1518* (W!).
- A. scholerianus* Bornm. 1908, Mitth. Thüring. Bot. Vereins, n.s. 23: 3. – Syntypes: [Turkey, Konya] Phrygia, Akscheher, montis Sultan-dagh, 1700–1800 m, 21.6.1899, *Bornmüller 4411* (B!, BP!, BREM!, BRNM!, G!, JE!, K!, P!, W!); [Konya] Sultan-dagh supra pagum Permata, 1600 m, 25.6.1899, *Bornmüller 4410*. Lectotype (designated here): *Bornmüller 4410* (B!; Iso: BP!, BR!, BREM!, BRNM!, BRNU!, E!, G!, HBG!, JE!, K!, LE!, M!, MSB!, P!, PRC!, W!, WU!).
- A. semnanensis* Bornm. & Rech.f. 1940, Repert. Spec. Nov. Regni Veg. 48: 123. – Lectotype (designated here): Iran, Prov. Damghan-Semnan, Sorcheh [Surkkeh] bei Semnan, ca. 1400 m, 29.6.1937, *Rechinger 1249* (W!; Iso: B!, BM!, K!).
- A. senilis* Bornm. 1905, Bull. Herb. Boiss., sér. 2, 5: 755. – Lectotype (designated here): inter Rescht et Kaswin, in trajectu Charsan, 2000 m, 13.5.1902, *Bornmüller 6729* (B!; Iso: B!).
- A. serafschanicus* Freyn 1904, Bull. Herb. Boiss., sér. 2, 4: 767. – Lectotype (designated here): Serafschan, prope Samarkand, in steppa ad Balan Nur, 6.5.1898, *Paulsen 111* (BRNM!; Iso: C!, LE!).
- A. sessiliceps* Bornm. 1908, Mitth. Thüring. Bot. Vereins, n.s. 23: 17. – Lectotype (designated here): Persia, inter Kermanschah et Nehawend, ad Dscham-Tuéh, 14.5.1904, *Strauss* (B!; Iso: JE!).
- A. smithianus* E.Peter 1938, Acta Horti Gothob. 12: 52. – Lectotype (designated here): China, Szechuan, Dongrergo, 20.7.1922, *Smith 3927* (W!; Iso: LD!).
- A. stenoceras* C.A.Mey.
– var. *macranthus* Bunge 1866, Bull. Soc. Imp. Naturalistes Moscou 39(2): 25. – Lectotype (designated here): Songaria, inter Arganaty et Kessykauss, 2.–3.5., *Semenow* (P!; Iso: LE!).
- A. stenostachys* Beck 1886, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl., 2. Abt. 51: 333. – Lectotype (designated here): [Iran] prope Tschitschian, in itinere ad Nehawend, 29.5.1882, *Pichler* (WU!; Iso: B!, W!, WU! – LE!; in agro Ecbatanensis).
- A. stereocalyx* Bornm. 1908, Mitth. Thüring. Bot. Vereins, n.s. 23: 15. – Lectotype (designated here): Phrygia, mt. Sultan-dagh ditionis opp. Akscheher, in jugo Teke-dagh, 1600–1700 m, 25.6.1899, *Bornmüller 4409* (sub. nomine *A. nidus-avis*) (B!; Iso: B!, BP!, BR!, BREM!, BRNM!, E!, G!, HBG!, K!, L!, LD!, LE!, M!, MSB!, P!, PR!, PRC!, STU!, W!, WU!, Z!).
- A. stevenianus* DC. 1825, Prodr. 2: 285. – Syntypes: in Asia minore, *C.Rostan*; in Iberia et Caucaso, *Steven*. Lectotype (designated here): in Iberia et Caucaso, *Steven* (G-DC!; Iso: H!; [circa Tiflin], P!).

- A. stojani* Nabelek 1923, Spisy Prir. Fak. Masarykovy Univ. 35: 84. – Lectotype (designated here): Mesopotamia mont. Tur Abdin, ad pag. Takjan inter Geziret-ibn Omar et Midiat, 900 m, 2.7.1910, *Nabelek 3076* (SAV!; Iso: SAV!).
- A. subspinosus* Hayek & Siehe 1914, Ann. Nat. Hofmus. Wien 28: 163. – Lectotype (designated here): Antitaurus, Vil. Konia, Masmutli-Dagh, 1800 m, Ende Juni 1906, *Siehe 268* (W!; Iso: JE!, LE!, Z!).
- A. subumbellatus* Klotzsch 1862, in Bot. Ergeb. Waldem. Reise: 159, tab. 3. – Type: Himalaya, *Hoffmeister* (B, destroyed; Fragm: P!). Neotype (Iconotype) (designated here): Tafel 3, Bot. Ergeb. Waldem. Reise in connection with the fragment in P!: Hb. Bunge).
- A. suluklensis* Freyn & Sint. 1904, Bull. Herb. Boiss., sér. 2, 4: 451. – Lectotype (designated here): [Kopet Dagh] Suluklü, 1.7.1900, *Sintenis 737* (LD!; Iso: B!, BP!, BRNM!, G!, JE!, LD!, LE!, P!).
- A. superfluus* Rech.f. & Køie 1958, Biol. Skr. 9(3): 156. – Lectotype (designated here): Afghanistan, Herat, 1100 m, 29.4.1949, *Køie 4454* (W!; Iso: C!).
- A. sykensis* Freyn 1905, Bull. Herb. Boiss., sér. 2, 5: 559. – Lectotype (designated here): Ferghana, Syk-Bulak ad fl. Langar, 16.6.1898, *Paulsen 351* (BRNM!; Iso: C!, LE!).
- A. tauricola* Boiss.
– var. *niveus* Barbey 1885, Bull. Soc. Vaud. Sci. Nat. 21: 221. – Lectotype (designated here): insula Carpathos ad Menites, 24.5.1883, *Pichler 240* (G!; Iso: G!, G-BOIS!, K!, LE!, MSB!, P!, WU!).
- A. tempskyanus* Freyn 1890, Österr. Bot. Z. 40: 442. – Lectotype (designated here): Amasia, 400–500 m, 18.5.1889, *Bornmüller 100* (BRNM!; Iso: B!, BR!, G!, GOET!, JE!, K!, LE!, MSB!, OXF!, P!, PR!, PRC!, STU!, W!, WU!).
– subsp. *crassicaarpus* Freyn & Sint. 1894, Österr. Bot. Z. 44: 64. – Lectotype (designated here): Paphlagonia ad Tossia, ad Schakylar, 16.7.1892, *Sintenis 3663b* (BRNM!; Iso: BP!, JE!, MSB!, P!, PR!).
– subsp. *unguiculatus* Freyn 1894, Österr. Bot. Z. 44: 63. – Lectotype (designated here): Paphlagonia ad Tossia, ad Kawak-Tscheschme, 10.5. (flor.) et 7.6. (fruct.) 1892, *Sintenis 3663* (BRNM!; Iso: B!, BP!, BR!, BRNM!, JE!, LE!, MSB!, P!, PR!, PRC!, W!, WU!).
- A. tenuiscapus* Freyn & Bornm. 1897, Bull. Herb. Boiss. 5: 590. – Lectotype (designated here): Kerman, Kuh-Lalesar, 3900–4000 m, 15.7.1892, *Bornmüller 3777* (B!; Iso: BRNM!).
- A. tongolensis* Ulbr.
– var. *glaber* E.Peter 1937, Acta Horti. Gothob. 12: 49. – Lectotype (designated here): Tibet orient., Amnyi Machen range [W of Yellow River: valley beyond Draknak nira, 13000', VII.1926, *Rock 14420* (E!; Iso: E!, K!, PE!).
– var. *lanceolato-dentatus* E.Peter 1937, Acta Horti Gothob. 12: 49. – Lectotype (designated here): Szechuan occ., Tshipula, 4000 m, 5.8.1922, *Smith 4175* (W!).
- A. transcaspicus* Freyn & Bornm. 1900, Mém. Herb. Boiss. 13: 16. – Lectotype (designated here): Transcaspica, prope Usun Ada, 20.4.1896, *Brotherus 1016* (BRNM!; Iso: G!, H!).
- A. triqueter* Bornm. & Gauba 1935, Repert. Spec. Nov. Regni Veg. 39: 106, nom. illeg. [non *A. triquetrus* A.Gray]. – Syntypes: Elburs, über Keredj, 17.5.1934, *Gauba* (B!); et 10.6.1934, *Gauba* (B!); et 18.5.1935, *Gauba 372a*. Lectotype (designated here): *Gauba 372a* (B!).
- A. ufraensis* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 568. – Lectotype (designated here): Krasnowodsk, ad Ufra, 21.4.1901, *Sintenis 1566* (BRNM!; Iso: B!, BM!, BP!, BRNM!, E!, G!, H!, JE!, K!, L!, LD!, LE!, M!, MSB!, MW, P!, PR!, PRC!, STU!, W!, WU!).

- A. uhlwormianus* Freyn & Bornm. 1890, Österr. Bot. Z. 40: 441. – Lectotype (designated here): Pontus australis, prope Khaousa, 400–500 m, 3.6.1889, *Bornmüller 98 c* (B!; Iso: B!, BRNM!, LE!).
- A. ulothrix* Beck, 1886, Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 51: 340. – Lectotype (designated here): inter Maniam et Kaebuterchan, 15.5.1882, *Pichler* (WU!; Iso: JE! fragm., WU! – G!: in monte Karaghan).
- A. unifoliolatus* Sirj. & Rech.f. 1953, Anz. Österr. Akad. Wiss. Math.- Naturwiss. Kl. 1953 (90): 116, nom. illeg. [non Bunge]. – Lectotype (designated here): Iran, Pashmshurum, Bakhtiari, 29.4.1940, *Koelz 15115* (W!; Iso: US).
- A. utriger* Pall.
- var. *ovatus* DC. 1802, Astragalogia: 217. – Lectotype (designated here): 'A. orientalis acaulos ferme flore luteo', *Tournefort* (P-TRF!; Iso: B-WILLD 14050!, P-LA!).
- A. vandasii* Velen. 1893, Sitzungsber. Königl. Böhm. Ges. Wiss. Prag, Math.-Naturwiss. Cl. 1892 (37): 24. – Lectotype (designated here): Mt. Rhodope ad Backovo, V.1893, *Velenovsky & Stribrny* (PRC: no. 858C!; Iso: B!, BR!, G!, PRC: no. 858A!, 858B!).
- A. variifolius* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 784. – Syntypes: Kasandschik, inter Usun-su et Uschak, 28.4.1901, *Sintenis 1594a*; dto., *Sintenis 1594c* (BRNM!, LD!); Kisil-Arwat, 3.5.1901, *Sintenis 1623c* (BM!, BP!, BRNM!, E!, K!, LD!, LE!, PR!, PRC!). Lectotype (designated here): *Sintenis 1594a* (BRNM!; Iso: B!, BRNM!, G!, JE!, LD!, LE!, MSB!, P!, STU!, WU!).
- var. *homoiophyllus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 786. – Syntypes: Kasandschik, 28.4.1901, *Sintenis 1594d*; Kisil-Arwat, 3.5.1901, *Sintenis 1623f* (B!, BRNM!, LD!); bei Stara Karakala, 26.5.1901, *Sintenis [1623g]* (LD!). Lectotype (designated here): *Sintenis 1594d* (LD!; Iso: BRNM!; JE!, LE!).
- A. variistipula* Turrill 1929, Kew Bull. 1929: 227. – Syntypes: N. Persia, near Tabriz, V.1927 (flowering), *Gilliat-Smith 1901*; & VI.1927 (fruiting), *Gilliat-Smith 2274* (K!). Lectotype (designated here): *Gilliat-Smith 1901* (K!).
- A. venostanus* Fritsch 1922, Exkursionsfl. Österr., ed. 3: 277, in clavi. – Type not indicated. Lectotype (designated here): Südtirol, Laas im Vintschgau, 1869, *A.Kerner* (WU!; Iso: WU!, L!).
- A. versipilus* Rech.f. & Koie 1958, Biol. Skr. 9(3): 168. – Lectotype (designated here): Afghanistan, inter Herat et Shindand, 1400 m, 8.5.1949, *Koie 3944* (W!; Iso: C!).
- A. vesicarius* L.
- var. *multiflorus* Cuatrec. 1929, Trab. Mus. Ci. Nat. Barcelona 12 [Fl. Mágina]: 335. – Syntypes: Sierra Mágina: Penascos del Barranco del Tejuelo, 1800 m, 30.6.1925, *Cuatrecasas* (MA!); Mágina, vert. SE, hacia El Gollzino, 1800 m, 1.7.1925, *Cuatrecasas* (K!); Penascos del Centenillo, 1800 m, 9.7.1925, *Cuatrecasas* (MA!); Almadén, vert. N., 1850 m, 19.7. 1925, *Cuatrecasas*; Almadén, en Rejón del Peregrino, 1700 m, 1.7.1926, *Cuatrecasas*; Cárceles, vert. NW., 1950 m, 17.6.1926, *Cuatrecasas*; Mágina Central, 2000 m, 26.6.1926, *Cuatrecasas*; Canada del Tejuelo, 1700 m, 25.6.1926, *Cuatrecasas* (MA!). Lectotype (designated here): [Spain] Sierra de Mágina, Cárceles NW, 1950 m, 17.6.1926, *Cuatrecasas* (BC!).
- A. vicioides* Ledeb.
- var. *parviflora* Trautv. 1860, Bull. Soc. Imp. Naturalistes Moscou 33(1): 498. – Syntypes: prope Karkaraly, 19.7.1840, *Schrenk*; in promontorio montium Tastau Songoriae, 1840, *Schrenk* (P!). Lectotype (designated here): prope Karkaraly, 19.7.1840, *Schrenk* (LE!).
- A. virgaeformis* Sirj. & Rech.f. 1958, Biol. Skr. 9(3): 139. – Lectotype (designated here): Afghanistan, Hauz-i-Mahiha, 2500 m, 11.7.1948, *Koie 2383* (W!; Iso: C!).

- A. viridiformis* Sirj. 1941, Repert. Spec. Nov. Regni Veg. 50: 285. – Lectotype (designated here): Armenia turcica, Kharput, Schuschnas, 5.6.1889, *Sintenis 581* (WU!; Iso: BRNM!).
- A. viridissimus* Freyn & Sint. 1892, Österr. Bot. Z. 42: 48. – Lectotype (designated here): Pontus, Trapezunt, inter Mataradjik et Hamskiöi, 28.4.1890, *Sintenis 2082* (BRNM!; Iso: JE!, LD!).
- A. vulpinus* Willd. 1802, Sp. Pl. 3: 1259. – Typonym: *A. alopecuroides* auct: Pall., Sp. Astragal.: 9. 1800, non L. – Syntypes: Sibiria, in Hb. Willdenow 13962/1–2. Lectotype (designated here): Sibiria, (B-Willd 13962/2!; Iso: B-WILLD 13962/1!, M!, W!).
- A. weirianus* Aitch. & Baker 1888, Trans. Linn. Soc. London, Bot. 3: 54. – Lectotype (designated here): Badghis [probably near Gal-icha W of Gulran], 29.4.1885, *Aitchison 336* (K!; Iso: BM!, C, G!, LE!, P!). Note: The statement of PODLECH & MAASSOUMI (1989) “holotype in K” is erroneous.
- A. wetsteinianus* Freyn & Sint. 1895, Bull. Herb. Boiss. 3: 183. – Lectotype (designated here): Armenia turcica, Gümüşchkhane, in monte Darsosdagh, 6.6.1894, *Sintenis 5735* (BRNM!; Iso: B!, BM!, BP!, BR!, E!, G!, JE!, K!, L!, LD!, LE!, M!, MSB!, P!, PR!, PRC!, STU!, W!, WU!).
- A. xanthinus* Freyn & Bornm. 1892, Österr. Bot. Z. 42: 47; et Bull. Herb. Boiss. 3: 184. 1895. – Lectotype (designated here): Pontus australis, mt. Yildiss-Dagh, 2300 m, 8.6.1890, *Bornmüller 2098* (B!; Iso: PRC!).
- A. xanthoxiphidium* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 788. – Type: As there is no type for the species, one must be selected out of the subspecies. I select the type of subsp. *accrescens*. Lectotype (designated here): Aschabad, IV.V.1900, *Sintenis 101c* (LD!; Iso: B!, LE!, MSB!, P!).
- subsp. *accrescens* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 796. – Lectotype (designated here): Aschabad, IV.V.1900, *Sintenis 101c* (LD!; Iso: B!, LE!, MSB!, P!). Note: As there are no collections and no type given for the subspecies I select as lectotype the collection given for var. *angustilobus*.
 - – var. *angustilobus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 796. – See type for ssp. *accrescens*.
 - – var. *latilobus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 797. – Syntypes: Aschabad, 20.4. et 12.5.1900, *Sintenis 101e* [according the printed label it should be var. *angustilobus*] (BP!, BRNM!, G!, JE!, LD!, P!, STU!, W!, WU!); et *Sintenis 101f*. Lectotype (designated here): *Sintenis 101f* (LD!; Iso: BRNM!, LD!).
 - subsp. *brotherusii* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 1015. – Syntypes: prope Kodsch Transcaspiæ, 1.5.1896, *Brotherus 1031*; Krasnowodsk, 15.4.1901, *Sintenis 1567*. Lectotype (designated here): *Sintenis 1567* (LD!; Iso: B!, BRNM!, JE!, LD!, LE!).
 - subsp. *campylopus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 797. – Lectotype (designated here): Karakala, in monte Sundsodagh, 18.5. et VI.1901, *Sintenis 1707a* (LD!; Iso: B!, BM!, BP!, BRNM!, E!, G!, JE!, K!, LD!, LE!, MSB!, P!, PRC!, STU!, WU!).
 - subsp. *curvicaulis* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 1014. – Syntypes: Aschabad, 20.4. et 18.5.1900 [in printed labels 12.5.1900], *Sintenis 101a*. Lectotype (designated here): *Sintenis 101a* (LD!; Iso: LD!; plants from both dates have been mostly distributed together: B!, BRNM!, JE!, LE!, STU!).
 - subsp. *holoxanthus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 1013. – Lectotype (designated here): Aschabad, 18.5.1900, *Sintenis 101b* (LD!; Iso: BM!, BRNM!, E!, K!, LD!).

- subsp. *latifoliolatus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 1012. – Lectotype (designated here): Aschabad, 12.5.1900, *Sintenis 101c* (LD!; Iso: BRNM!, JE!, LD!, LE!).
- subsp. *obscurus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 799. – Lectotype (designated here): Aschabad, 20.4.1900, *Sintenis 101d* (BRNM!; Iso: BRNM!, LE!, MSB!).
- subsp. *rectus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 797. – Syntypes: Kisil Arwat, Karakala, in monte Sundsodagh, 18.5.1901, *Sintenis 1707b*; Suluklü, 7.7.1900, *Sintenis 736* (BRNM!, LD!). Lectotype (designated here): *Sintenis 1707b* (LD!; Iso: B!, BM!, BP!, BRNM!, E!, G!, JE!, K!, LD!, LE!, STU!).
- var. *elongatus* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 798. – Lectotype (designated here): Kisil Arwat, Karakala, in monte Sundsodagh, 18.5.1901, *Sintenis 1707c* (LD!; Iso: LD!, P!).
- A. xiphidioides* Freyn & Sint. 1905, Bull. Herb. Boiss., sér. 2, 5: 786. – Syntypes: Kasandschik, inter Usun-su et Uschak, 28.4.1901, *Sintenis 1594b*; Kisil-Arwat, 3.5.1901, *Sintenis 1623e*. Lectotype (designated here): *Sintenis 1594b* (BRNM!; Iso: LD!).
- A. xiphocarpus* Bunge 1868, Mém. Acad. Imp. Sci. Saint Pétersbourg 1 (16): 27 [et l.c. 15(1): 32. 1869]. – Lectotype (designated here): Sikkim, Khasrou, 9000', *Hooker* (K!: Hb. Hooker; Iso: CGE!, K!: Hb. Bentham & Hb. Hooker, L!, GOET!: 10000–11000').
- A. xylorrhizus* Freyn & Sint.
 - var. *angustus* Freyn & Sint. 1894, Österr. Bot. Z. 44: 28. – Syntypes: Paphlagonae ad Tossia, ad Kawak Tscheschme, 7.6.1892, *Sintenis 4128*; ad Tschinonbaba, 19.7.1892, *Sintenis 4128b*. Lectotype (designated here): *Sintenis 4128* (BRNM!; Iso: B!, BM!, BP!, BR!, G!, GOET!, JE!, K!, L!, LE!, M!, MSB!, OXF!, PR!, PRC!, W!, WU!).
- A. zubairensis* Eig 1955, Syst. Stud. Astrag. Near East: 72. – Lectotype (designated here): 76 km W Basra and about 60 km from Ez-Zubair, 8.4.1933, *Eig & Zohary* (HUJ!; Iso: E!, HUJ!).

References

- BECHT, R. 1978: Revision der Sektion *Alopecuroidei* DC. der Gattung *Astragalus* L. – Phanerog. Monogr. 10: 1–227.
- OSTENFELD, C. & PAULSEN, O. 1922: Flowering Plants from Inner Asia. – In: Hedin, S.: Southern Tibet, vol. 6, 3.
- PODLECH, D. 1998: Typification of *Astragalus* species II. Species mainly from the herbaria of Paris (P) and Geneva (G). – Sendtnera 5: 247–263.
- & MAASSOUMI, A.A. 1989: Two new species of *Astragalus* from Iran and their affinities to *A. weirianus* from Afghanistan. – Kit Tan (ed.): The Davis and Hedge Festschrift: 71–79; Edinburgh.
- & SYTIN, A. 1996: Typification of Russian and some other species of *Astragalus* L. – Sendtnera 3: 149–176.
- WENNINGER, J. 1991: Revision von *Astragalus* L. sect. *Chlorostachys* Bunge, sect. *Phyllolobium* Bunge und sect. *Skythropos* Bunge (Leguminosae). – Mitt. Bot. Staatssamml. München 30: 1–196.